Week 6

**9. ReactJS-HOL**

**App.js**

import React, { useState } from 'react';

import ListOfPlayers from './components/ListOfPlayers';

import IndianPlayers from './components/IndianPlayers';

function App() {

  const [flag, setFlag] = useState(true);

  return (

    <div style={{ padding: "20px" }}>

      <h1>🏏 Cricket App</h1>

      <button onClick={() => setFlag(!flag)}>Toggle View</button>

      {flag ? <ListOfPlayers /> : <IndianPlayers />}

    </div>

  );

}

export default App;

**Index.js**

import React from 'react';

import ReactDOM from 'react-dom/client';

import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(<App />);

**IndianPlayers.js**

import React from 'react';

const IndianPlayers = () => {

  const T20Players = ["Virat", "Rohit", "Hardik", "Bumrah"];

  const RanjiPlayers = ["Prithvi", "Shubman", "Ishant", "Saini"];

  const allPlayers = [...T20Players, ...RanjiPlayers];

  const oddPlayers = allPlayers.filter((\_, index) => index % 2 === 1);

  const evenPlayers = allPlayers.filter((\_, index) => index % 2 === 0);

  return (

    <div>

      <h2>Merged Indian Players</h2>

      <ul>

        {allPlayers.map((player, index) => (

          <li key={index}>{player}</li>

        ))}

      </ul>

      <h3>Odd Team Players</h3>

      <ul>

        {oddPlayers.map((player, index) => (

          <li key={index}>{player}</li>

        ))}

      </ul>

      <h3>Even Team Players</h3>

      <ul>

        {evenPlayers.map((player, index) => (

          <li key={index}>{player}</li>

        ))}

      </ul>

    </div>

  );

};

export default IndianPlayers;

**ListOfPlayers.js**

import React from 'react';

const ListOfPlayers = () => {

  const players = [

    { name: "Virat", score: 80 },

    { name: "Rohit", score: 90 },

    { name: "Dhoni", score: 65 },

    { name: "Sachin", score: 100 },

    { name: "Rahul", score: 45 },

    { name: "Yuvraj", score: 75 },

    { name: "Jadeja", score: 30 },

    { name: "Ashwin", score: 55 },

    { name: "Kohli", score: 95 },

    { name: "Sehwag", score: 60 },

    { name: "Dravid", score: 50 },

  ];

  const below70 = players.filter(player => player.score < 70);

  return (

    <div>

      <h2>All Players</h2>

      <ul>

        {players.map((player, index) => (

          <li key={index}>{player.name} - {player.score}</li>

        ))}

      </ul>

      <h2>Players with Score below 70</h2>

      <ul>

        {below70.map((player, index) => (

          <li key={index}>{player.name} - {player.score}</li>

        ))}

      </ul>

    </div>

  );

};

export default ListOfPlayers;

**Index.html**

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="utf-8" />

    <link rel="icon" href="%PUBLIC\_URL%/favicon.ico" />

    <meta name="viewport" content="width=device-width, initial-scale=1" />

    <title>Cricket App</title>

  </head>

  <body>

    <noscript>You need to enable JavaScript to run this app.</noscript>

    <div id="root"></div>

  </body>

</html>

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**10. ReactJS-HOL**

**Index.html**

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="utf-8" />

    <title>Office Space Rental App</title>

  </head>

  <body>

    <div id="root"></div>

  </body>

</html>

**App.js**

import React from 'react';

const App = () => {

  const officeSpaces = [

    {

      name: "Skyview Tower",

      rent: 75000,

      address: "Hitech City, Hyderabad",

      image: "https://via.placeholder.com/300x200?text=Skyview+Tower"

    },

    {

      name: "EcoSpace",

      rent: 50000,

      address: "Whitefield, Bangalore",

      image: "https://via.placeholder.com/300x200?text=EcoSpace"

    },

    {

      name: "Cyber Heights",

      rent: 65000,

      address: "Cyberabad, Hyderabad",

      image: "https://via.placeholder.com/300x200?text=Cyber+Heights"

    }

  ];

  const rentStyle = (rent) => ({

    color: rent < 60000 ? 'red' : 'green',

    fontWeight: 'bold'

  });

  return (

    <div style={{ padding: "20px", fontFamily: "Arial" }}>

      <h1>🏢 Office Space Rental Listings</h1>

      {officeSpaces.map((office, index) => (

        <div key={index} style={{ border: "1px solid #ccc", margin: "10px", padding: "10px", borderRadius: "8px" }}>

          <h2>{office.name}</h2>

          <img src={office.image} alt={office.name} style={{ width: "300px", height: "200px" }} />

          <p><strong>Address:</strong> {office.address}</p>

          <p><strong>Rent:</strong> <span style={rentStyle(office.rent)}>₹{office.rent}</span></p>

        </div>

      ))}

    </div>

  );

};

export default App;

**index.js**

import React from 'react';

import ReactDOM from 'react-dom/client';

import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(<App />);

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**11. ReactJS-HOL**

**Index.html**

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="utf-8" />

    <title>Event Examples App</title>

  </head>

  <body>

    <div id="root"></div>

  </body>

</html>

**Components/Counter.js**

import React, { Component } from 'react';

class Counter extends Component {

  constructor(props) {

    super(props);

    this.state = { count: 0 };

    this.incrementAndGreet = this.incrementAndGreet.bind(this);

    this.decrement = this.decrement.bind(this);

  }

  increment = () => {

    this.setState({ count: this.state.count + 1 });

  };

  sayHello = () => {

    console.log("Hello! Have a great day!");

  };

  incrementAndGreet() {

    this.increment();

    this.sayHello();

  }

  decrement() {

    this.setState({ count: this.state.count - 1 });

  }

  render() {

    return (

      <div>

        <h2>Counter: {this.state.count}</h2>

        <button onClick={this.incrementAndGreet}>Increment & Greet</button>{' '}

        <button onClick={this.decrement}>Decrement</button>

      </div>

    );

  }

}

export default Counter;

**CurrencyConvertor.js**

import React, { useState } from 'react';

function CurrencyConvertor() {

  const [rupees, setRupees] = useState('');

  const [euro, setEuro] = useState(null);

  const handleSubmit = () => {

    const converted = parseFloat(rupees) / 90;

    setEuro(converted.toFixed(2));

  };

  return (

    <div>

      <h2>Currency Convertor (INR to Euro)</h2>

      <input

        type="number"

        placeholder="Enter amount in INR"

        value={rupees}

        onChange={(e) => setRupees(e.target.value)}

      />

      <button onClick={handleSubmit}>Convert</button>

      {euro !== null && <p>EUR: €{euro}</p>}

    </div>

  );

}

export default CurrencyConvertor;

**SyntheticEventButton.js**

import React from 'react';

function SyntheticEventButton() {

  const handleClick = (event) => {

    alert("I was clicked");

    console.log("Synthetic Event:", event);

  };

  return (

    <div>

      <h2>Synthetic Event Button</h2>

      <button onClick={handleClick}>Click Me</button>

    </div>

  );

}

export default SyntheticEventButton;

**WelcomeButton.js**

import React from 'react';

function WelcomeButton() {

  const sayWelcome = (message) => {

    alert(`Message: ${message}`);

  };

  return (

    <div>

      <h2>Say Welcome Button</h2>

      <button onClick={() => sayWelcome('Welcome to React Events!')}>Say Welcome</button>

    </div>

  );

}

export default WelcomeButton;

**App.js**

import React from 'react';

import Counter from './components/Counter';

import WelcomeButton from './components/WelcomeButton';

import SyntheticEventButton from './components/SyntheticEventButton';

import CurrencyConvertor from './components/CurrencyConvertor';

function App() {

  return (

    <div style={{ padding: "20px", fontFamily: "Arial" }}>

      <h1>🎯 React Event Handling Examples</h1>

      <Counter />

      <WelcomeButton />

      <SyntheticEventButton />

      <CurrencyConvertor />

    </div>

  );

}

export default App;

**index.js**

import React from 'react';

import ReactDOM from 'react-dom/client';

import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(<App />);

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**12. ReactJS-HOL**

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <link rel="icon" href="%PUBLIC\_URL%/favicon.ico" />

  <meta name="viewport" content="width=device-width, initial-scale=1.0" />

  <title>Ticket Booking App</title>

</head>

<body>

  <div id="root"></div>

</body>

</html>

**App.js**

import React, { useState } from "react";

import FlightDetails from "./FlightDetails";

import GuestPage from "./GuestPage";

import UserPage from "./UserPage";

function App() {

  const [isLoggedIn, setIsLoggedIn] = useState(false);

  const login = () => setIsLoggedIn(true);

  const logout = () => setIsLoggedIn(false);

  let pageContent;

  if (isLoggedIn) {

    pageContent = <UserPage logout={logout} />;

  } else {

    pageContent = <GuestPage login={login} />;

  }

  return (

    <div style={{ padding: "20px" }}>

      <h1>Ticket Booking App</h1>

      <hr />

      {pageContent}

    </div>

  );

}

export default App;

**Index.js**

import React from "react";

import ReactDOM from "react-dom/client";

import App from "./App";

const root = ReactDOM.createRoot(document.getElementById("root"));

root.render(<App />);

**UserPage.jx**

import React from "react";

function UserPage({ logout }) {

  return (

    <div>

      <h3>Welcome User</h3>

      <p>You can now book your flights!</p>

      <button onClick={logout}>Logout</button>

    </div>

  );

}

export default UserPage;

**GuestPage.js**

import React from "react";

function GuestPage({ login }) {

  return (

    <div>

      <h3>Welcome Guest</h3>

      <p>Please log in to book your tickets.</p>

      <button onClick={login}>Login</button>

    </div>

  );

}

export default GuestPage;

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**13. ReactJS-HOL**

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <link rel="icon" href="%PUBLIC\_URL%/favicon.ico" />

  <meta name="viewport" content="width=device-width, initial-scale=1.0" />

  <title>Blogger App</title>

</head>

<body>

  <div id="root"></div>

</body>

</html>

**App.js**

import React, { useState } from "react";

import BookDetails from "./BookDetails";

import BlogDetails from "./BlogDetails";

import CourseDetails from "./CourseDetails";

function App() {

  const [show, setShow] = useState("book");

  const renderComponent = () => {

    switch (show) {

      case "book":

        return <BookDetails />;

      case "blog":

        return <BlogDetails />;

      case "course":

        return <CourseDetails />;

      default:

        return <h2>Select a component to render</h2>;

    }

  };

  return (

    <div style={{ padding: "20px" }}>

      <h1>Blogger App - Conditional Rendering</h1>

      <button onClick={() => setShow("book")}>Show Book Details</button>

      <button onClick={() => setShow("blog")}>Show Blog Details</button>

      <button onClick={() => setShow("course")}>Show Course Details</button>

      <hr />

      {renderComponent()}

    </div>

  );

}

export default App;

**BlogDetails.js**

import React from "react";

function BlogDetails() {

  const showBlog = true;

  return (

    <div>

      <h2>Blog Details</h2>

      {showBlog && <p>This blog explains conditional rendering in React.</p>}

    </div>

  );

}

export default BlogDetails;

**CourseDetails.js**

import React from "react";

function CourseDetails() {

  const course = { name: "React Course", duration: "4 weeks" };

  return (

    <div>

      <h2>Course Details</h2>

      {course ? (

        <p>

          Course: {course.name}, Duration: {course.duration}

        </p>

      ) : (

        <p>No course data available.</p>

      )}

    </div>

  );

}

export default CourseDetails;

**BookDetails.js**

import React from "react";

const books = [

  { id: 1, title: "React Basics", author: "Dan Abramov" },

  { id: 2, title: "Advanced React", author: "Kent Dodds" }

];

function BookDetails() {

  return (

    <div>

      <h2>Book Details</h2>

      {books.length ? (

        books.map((book) => (

          <div key={book.id}>

            <h4>{book.title}</h4>

            <p>by {book.author}</p>

          </div>

        ))

      ) : (

        <p>No books available.</p>

      )}

    </div>

  );

}

export default BookDetails;

**Index.js**

import React from "react";

import ReactDOM from "react-dom/client";

import App from "./App";

const root = ReactDOM.createRoot(document.getElementById("root"));

root.render(<App />);A screenshot of a computer

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